

Appl. No.: 10/629,517
Reply to Office Action of December 14, 2004

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Amendment

APR 14 2005

Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Please add new claims 41 – 43 shown below. Please amend claims 1, 20, and 24, as shown below, without prejudice.

1. (Currently Amended) A computerized method for performing alternate routing of communications in a network, the method comprising:

initiating a communication from an origination endpoint in a packet-switched network to a destination endpoint; and

determining, according to selection criteria, whether to route the communication to the destination endpoint using at least a second circuit-switched network; and

within the packet-switched network, translating a destination endpoint identification number from a format associated with the packet-switched network into a format associated with the circuit-switched network.

2. (Original) The method of claim 1, wherein initiating a communication comprises initiating a VoIP communication.

3. (Original) The method of claim 1, wherein initiating a communication comprises initiating a communication from a VoIP endpoint.

4. (Original) The method of claim 1, wherein initiating a communication from an origination endpoint in a packet-switched network comprises initiating a communication from an origination endpoint in a VoIP network.

5. (Original) The method of claim 1, wherein initiating a communication to

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a destination endpoint comprises initiating a communication to a VoIP endpoint.

6. (Original) The method of claim 1, wherein initiating a communication to a destination endpoint comprises initiating a communication to a PSTN endpoint.

7. (Original) The method of claim 1, wherein determining comprises determining according to available bandwidth criteria.

8. (Original) The method of claim 7, wherein determining according to available bandwidth criteria comprises determining whether a number of call counts processed by an enterprise gatekeeper is above a specified threshold.

9. (Original) The method of claim 1, wherein determining comprises determining according to network resource availability criteria.

10. (Original) The method of claim 9, wherein determining according to network resource availability criteria comprises determining according to the availability of a network component.

11. (Original) The method of claim 10, wherein determining according to the availability of a network component comprises determining according to the availability of a network endpoint.

12. (Original) The method of claim 11, wherein determining according to the availability of a network endpoint comprises:

sending, to a gatekeeper, an admission request containing a network address associated with the network endpoint;
wherein the gatekeeper is programmed to determine whether the network address associated with the network endpoint is a member of a set of available network addresses.

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13. (Original) The method of claim 10, wherein determining according to the availability of a network component comprises determining according to the availability of a call mediator.

14. (Original) The method of claim 13, wherein determining according to the availability of a call mediator comprises:

 sending, to a gatekeeper, an admission request containing a network address associated with a network endpoint;

 wherein the gatekeeper is programmed to determine whether a call mediator associated with the network address is a member of a set of available call mediators.

15. (Original) The method of claim 10, wherein determining according to the availability of a network component comprises determining according to the availability of a gatekeeper.

16. (Original) The method of claim 10, wherein determining according to the availability of a network component comprises determining according to the availability of a gateway.

17. (Original) The method of claim 10, wherein determining according to the availability of a network component comprises determining according to the availability of a router.

18. (Original) The method of claim 9, wherein determining according to network resource availability criteria comprises determining according to the availability of a communication link.

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19. (Original) The method of claim 1, wherein routing the communication to the destination endpoint using at least a second circuit-switched network comprises routing the communication using the PSTN.

20. (Currently Amended) A system for alternate routing of communications in a network, the system comprising:

an origination endpoint in a packet-switched network;

a destination endpoint; [[and]]

a gatekeeper programmed to determine, according to selection criteria, whether to route a communication from the origination endpoint to the destination endpoint using at least a second circuit-switched network; and

a translation gateway translating a destination endpoint identifier from a format associated with the packet-switched network into a format associated with the circuit-switched network.

21. (Original) The system of claim 20, wherein the origination endpoint comprises a VoIP endpoint.

22. (Original) The system of claim 20, wherein the packet-switched network comprises a VoIP network.

23. (Original) The system of claim 20, wherein the origination endpoint comprises a VoIP endpoint.

24. (Currently Amended) The system of claim 20, wherein the origination destination endpoint comprises a PSTN endpoint.

25. (Original) The system of claim 20, wherein the gatekeeper comprises an enterprise gatekeeper.

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26. (Original) The system of claim 20, wherein the gatekeeper comprises an inbound gatekeeper.

27. (Original) The system of claim 20, wherein the gatekeeper comprises an outbound gatekeeper.

28. (Original) The system of claim 20, wherein the gatekeeper comprises a translation gatekeeper.

29. (Original) The system of claim 20, wherein the selection criteria comprises available bandwidth criteria.

30. (Original) The system of claim 29, wherein the available bandwidth criteria comprises whether a number of call counts processed by an enterprise gatekeeper is above a specified threshold.

31. (Original) The system of claim 20, wherein the selection criteria comprises network resource availability criteria.

32. (Original) The system of claim 31, wherein the network resource availability criteria comprises the availability of a network component.

33. (Original) The system of claim 32, wherein the network component comprises a network endpoint.

34. (Original) The system of claim 33, wherein the gatekeeper determines the availability of the network endpoint by receiving an admission request containing a network address associated with the network endpoint, and determines whether the

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network address associated with the network endpoint is a member of a set of available network addresses.

35. (Original) The system of claim 32, wherein the network component comprises a call mediator.

36. (Original) The system of claim 35, wherein the gatekeeper determines the availability of the call mediator by receiving an admission request containing a network address associated with a network endpoint, and determines whether a call mediator associated with the network address is a member of a set of available call mediators.

37. (Original) The system of claim 32, wherein the network component comprises a gatekeeper.

38. (Original) The system of claim 32, wherein the network component comprises a gateway.

39. (Original) The system of claim 32, wherein the network component comprises a router.

40. (Original) The system of claim 20, wherein the circuit-switched network comprises the PSTN.

41. (New) The method of claim 1 wherein translating comprises translating a E.164 direct inward dial (DID) number into a PSTN-routable number.

42. (New) The system of claim 20 wherein the translation gateway translates a E.164 direct inward dial (DID) number into a number that is routable over a

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Public Switched Telephone Network (PSTN).

43. (New) A computerized method for establishing a telephonic call from an origination endpoint to a destination endpoint, the computerized method comprising:

receiving a destination telephone number at a gatekeeper in a packet-switched network, the destination telephone number being in a format suitable for routing the telephonic call over the packet-switched network;

determining whether to route the telephonic call using the packet-switched network or a circuit-switched network based on network selection criteria;

translating, within the packet-switched network, the destination telephone number into a format suitable for routing the telephonic call over the circuit-switched network; and

establishing a connection over the circuit-switched network using the destination telephone number in the format suitable for routing the telephonic call over the circuit-switched network.